

IN VITRO, MULTIPLE ELECTRODE PAIR ARRAY AND MULTIPLE
TREATMENT CELL APPARATUS FOR USE IN ELECTROPORATION

Abstract of the Disclosure

A multiple electrode pair array apparatus is
5 provided for use with a multiple well plate which
has multiple wells distributed in a two-dimensional
matrix array which has R rows and C columns. The
multiple electrode pair array apparatus includes a
non-conductive base member. An array of pairs of
10 electrodes are attached to the base member and
project therefrom. The pairs of electrodes are
distributed on the base member in a two-dimensional
matrix array which has R rows and C columns to
enable registration with the two-dimensional matrix
15 array of wells. Each pair of electrodes includes a
respective first electrode and a respective second
electrode. An array of R row conductors are
electrically connected to corresponding first
electrodes. An array of C column conductors are
20 oriented perpendicular to the R row conductors, are
electrically insulated from the row conductors, and
are electrically connected to corresponding second
electrodes.